Week 4 Group Report
Expert Anesthesia Monitoring System

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Client Contact: Dr. McIsaac @ Hartford Hospital
Advisor: Dr. John Enderle @ University of Connecticut
Week 4 Accomplishments

- The team spent a great deal of time problem solving the network connection issues. They also spent a great deal of time in the OR working directly with Dr. McIsaac.
UDP Program

Instructions:
1. Open the UDP Sender.vi.
2. Make sure the Port in this VI and the Remote Port in the UDP Sender.vi are the same.
3. Adjust the Max Bytes/Read in this VI.
4. Run this VI first.
5. Run the UDP Sender second.
6. Look at the data received and the number of bytes received.

Note: This VI is built to work with the UDP Sender.vi.

UDP Receiver.vi Block Diagram

Open UDP port
Read data from the port.
Read number of bytes received and add them to the ones read in a previous iteration
Concatenate data received, and display it in the string indicator
If the UDP Read.vi times out, reset the error cluster so an error does not show
Close UDP port
Check for errors
TCP Testing

- The original TCP program could not connect to the network. No data was received.
- Then we connected the program directly to the monitor there was still limited connectivity
UDP Testing

- Contacted NI for technical support and found that UDP maybe a better idea.
- Tested it in the hospital with the same results as the TCP program.
DOS Testing

- We tested programs that McIsaac supplied to us which he said had worked in the past.
- The first program was done by a student of his and there was one set of data that was retrieved but it was never able to be replicated.
- The second program had the same problem with connection that our programs had.
Future Work

- More testing has to be done to determine the method to obtain data from the network.
- Meeting with GE rep on Monday to determine possible methods of communicating with the GE-Marquette.
- Continue to determine which LCD screens are available for Blackfin, contacts have been made but no responses have been given.
Hours Worked

- Timothy: 23 hours
- Nathan: 20 hours
- Kane: 15 hours
- Budget spent is still $0